

Datasheet: MCA6104

**BATCH NUMBER 162923**

<b>Description:</b>	HUMAN ANTI INTEGRIN ALPHA 4 (NATALIZUMAB BIOSIMILAR)
<b>Specificity:</b>	INTEGRIN ALPHA 4
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	Natalizumab
<b>Isotype:</b>	IgG4
<b>Quantity:</b>	0.2 mg

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Human
<b>Product Form</b>	Human IgG4 (kappa) antibody - liquid
<b>Preparation</b>	Purified recombinant IgG prepared by affinity chromatography on Protein A from a mammalian cell line
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.02% Proclin 300
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	RAMOS cell line
<b>Specificity</b>	<b>Human Anti-Integrin Alpha 4 Antibody</b> is a research grade biosimilar of the monoclonal

antibody drug natalizumab. This product is supplied in a research grade format, i.e. in PBS buffer with preservative, it is not manufactured or formulated in the same way as the therapeutic reference product. A preservative free version is available [on request](#).

This product is a recombinant human IgG4 kappa antibody with variable regions from the therapeutic antibody natalizumab.

Human Anti-Integrin Alpha 4 Antibody is for research use only. It is suitable as a reference standard in a pharmacokinetic (PK) bridging ELISA with anti-natalizumab antibodies, for example [HCA248](#) and [HCA249P](#). It can also be used as capture and detection reagent in an anti-drug antibody (ADA) bridging ELISA, with an anti-natalizumab antibody in IgG1 format as reference standard, for example [HCA249](#).

Natalizumab (Tysabri) is a humanized IgG4/kappa monoclonal antibody approved as a monotherapy for the treatment of relapsing forms of multiple sclerosis and for the treatment of Crohn's disease. Natalizumab is also being evaluated for potential clinical use in the treatment of B-cell malignancies. This therapeutic antibody, directed against alpha-4 integrin (CD49d), binds to alpha-4/beta-1 integrin on the surface of circulating leucocytes. It is believed to act by blocking the interaction of alpha-4/beta-1 integrin with vascular cell adhesion molecule-1 (VCAM-1), preventing the adherence and transport of inflammatory immune cells across the intestinal lining and blood-brain barrier.

This product is NOT FOR THERAPEUTIC USE.

[View a summary of supporting anti-natalizumab antibody products](#)

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<b>Purity</b>	>98% by SDS PAGE
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<b>Storage</b>	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.  Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.
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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #20463 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA610420463">https://www.bio-rad-antibodies.com/SDS/MCA610420463</a>
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<b>Licensed Use</b>	For in vitro research purposes only. Research grade biosimilar. Not for use in therapeutic or diagnostic procedures for humans or animals.
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<b>Regulatory</b>	For research purposes only
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## Related Products

## Recommended Useful Reagents

[HISPEC ASSAY DILUENT \(BUF049A\)](#)

[LYNX RAPID HRP ANTIBODY CONJUGATION KIT \(LNK002P\)](#)

**North & South** Tel: +1 800 265 7376

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

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